

$$\frac{x-3}{x^2-5x-14} \leq 0$$

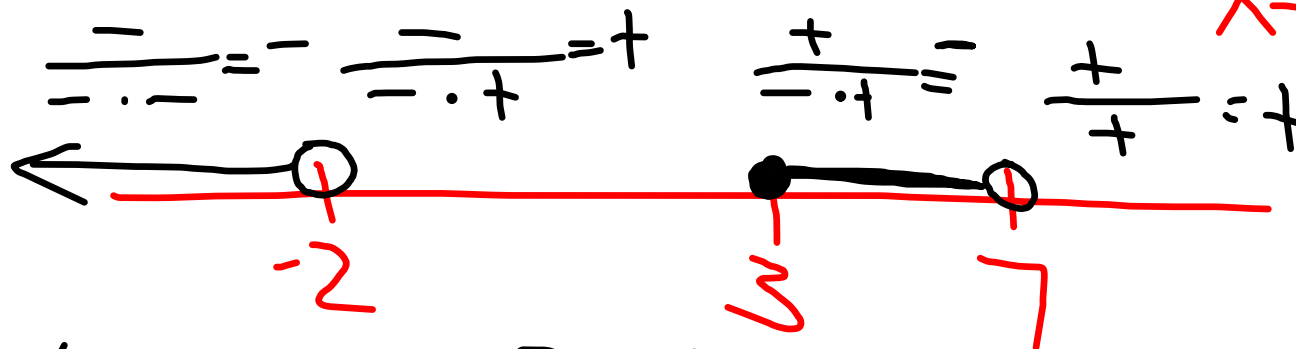
$$(x-7)(x+2)$$

zero

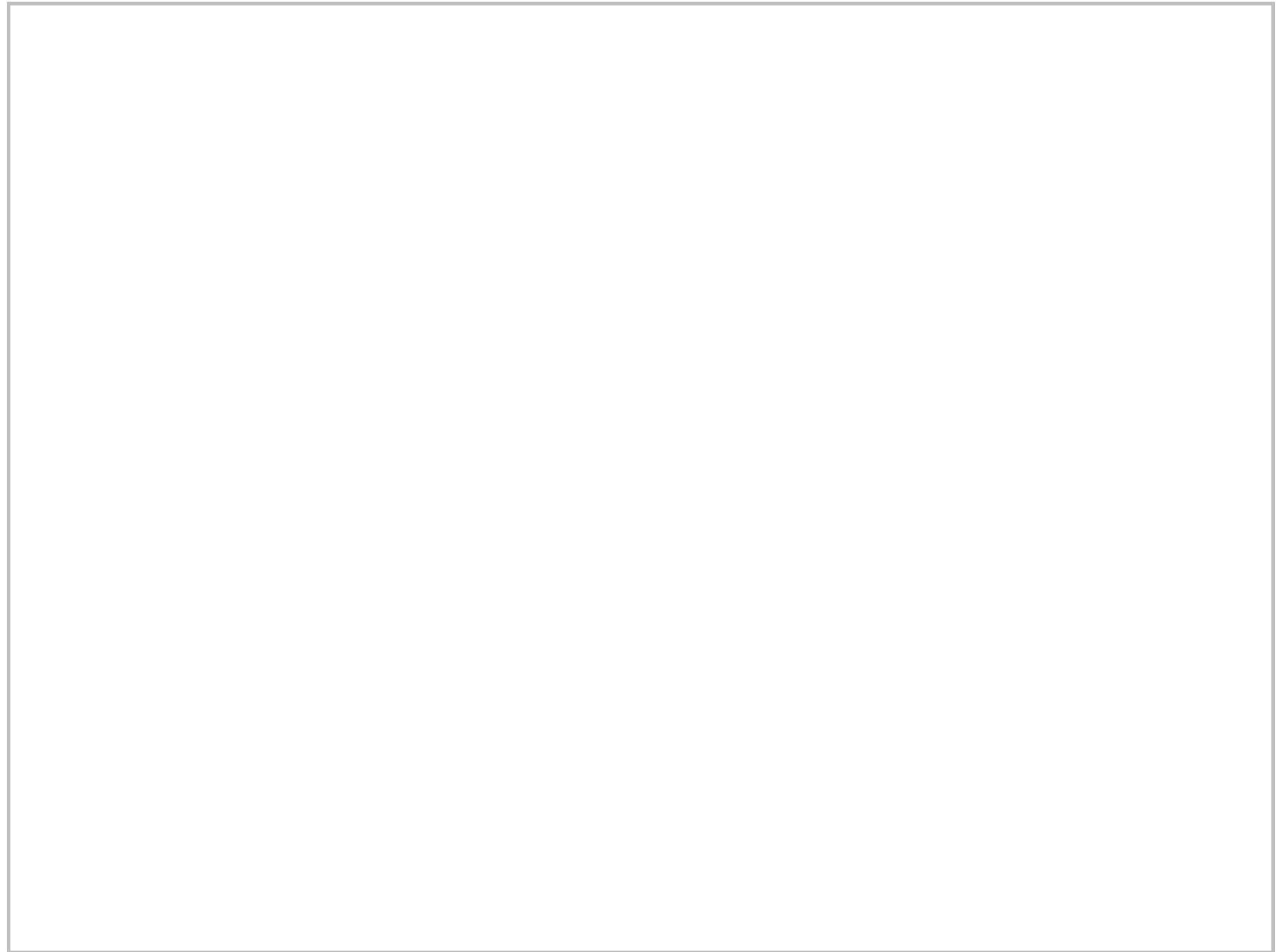
$$x=3$$

undefined

$$x=7, -2$$



$$(-\infty, -2) \cup [3, 7)$$

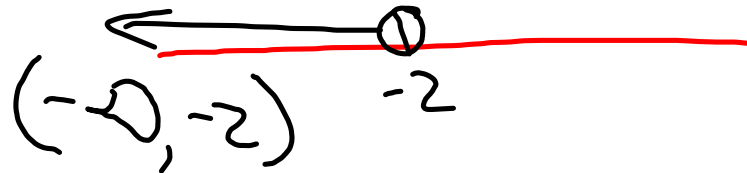


$$\frac{x-4}{x+2} \geq 1$$

$$\frac{x-4}{x+2} - 1 \geq 0$$

$$\frac{x-4-x-2}{x+2} \geq 0$$

$$\frac{-6}{x+2} \geq 0$$

$\frac{-}{-} = +$   
  
 $(-\infty, -2]$

zero

none

undefined

$$x = -2$$

$$\frac{(x+2)(x+5)}{(x+3)(x+5)} - \frac{3(x+3)}{(x+5)(x+3)} \leq 0$$

$$\frac{x^2 + 7x + 10 - 3x - 9}{(x+5)(x+3)} \leq 0$$

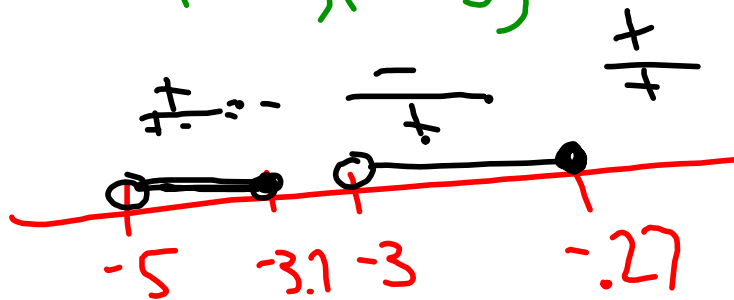
zero

$$\frac{x^2 + 4x + 1}{(x+5)(x+3)} \leq 0$$

$$x = -3.7 \quad x \approx -2.7$$

undefined

$$x = -5, -3$$



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